Reflective Cracking Testing Notes

Date: February 20, 2015

Project: Reflective Cracking Indoor Phase IV

Weather:

	6:54 AM	3:54 PM
Temperature (°F):	1.0	17.1
Dew Point (°F):	-16.1	-6.0
Humidity (%):	45	36
Visibility (Miles):	10.0	10.0
Wind (MPH):	16.1 WNW	15.0 W
Conditions:	Clear	Clear

Working Hours: 7:00 AM – 4:30 PM

Sub-Contractor(s): None

Personnel: SRA

Equipment: Hand tools

Reflective Cracking Testing Notes:

The 12 mil formal test continued on the test item. On the South test section, the inner vertical edge remains unchanged from the pre-test condition, as shown in Figure 1 below. The South outer vertical edge shows no cracks, as shown in Figure 2. On the North test section, the inner vertical edge remains unchanged from the pre-test condition, as shown in Figure 3. The existing crack present within the North outer vertical edge shows minimal propagation since yesterday (2/19/2015) and continues to measure approximately 1 inch long, as shown in Figure 4 below. However, unlike yesterday, the sensor SG6-N-0 is now reading open.

The chiller remains inoperative due to a low flow fault. SRA is tentatively planning on purchasing the tubing and fittings required to alter the plumbing path to the differential pressure switch next Monday (2/23/2015) depending on the status of the FAA procurement. The ambient temperature reading is 31.3 °F. The temperature at the interface is reading 30.3 °F (T1-S) and 30.1 °F (T1-N). In light of a forecasted temperature increase for next week, it is recommended that the chiller functionality be restored as soon as possible in order to ensure interface temperatures do not increase above the target value.

In anticipation of the planned power shutdown for Building 296 to take effect tomorrow (2/21/2015), power was shut off to the data collection and the reflective cracking rig systems at 3:15 pm today. Test cycles are tentatively planned to resume next Tuesday (2/24/2015) pending the successful plumbing alteration and restoration of the chiller operation.

Figure 1. South Inner Vertical Edge.

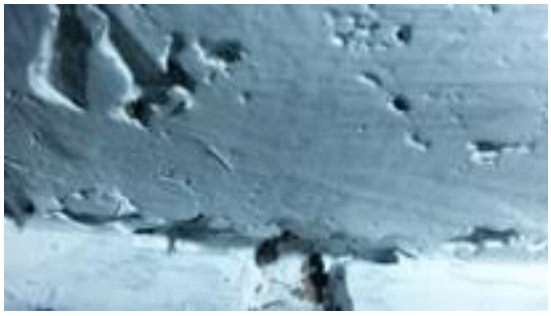

Figure 2. South Outer Vertical Edge.

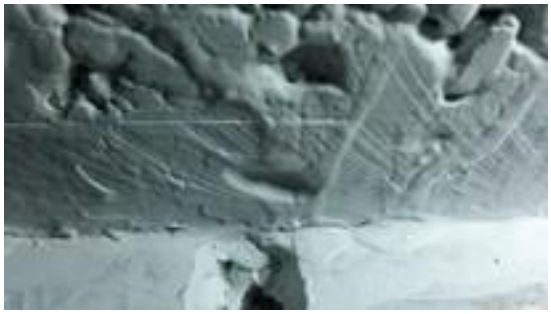

Figure 3. North Inner Vertical Edge.

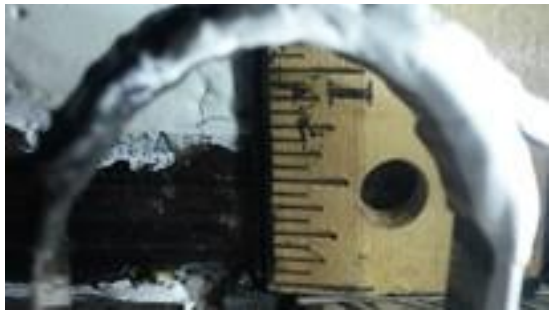

Figure 4. North Outer Vertical Edge.